

=> d his

(FILE 'HOME' ENTERED AT 10:57:42 ON 19 MAY 2004)

FILE 'REGISTRY' ENTERED AT 10:57:50 ON 19 MAY 2004

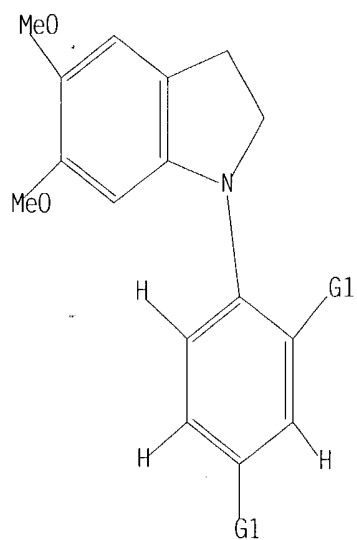
L1 STRUCTURE UPLOADED  
L2 STRUCTURE UPLOADED  
L3 STRUCTURE UPLOADED  
L4 STRUCTURE UPLOADED  
L5 STRUCTURE UPLOADED  
L6 0 S L1 OR L2 OR L3 OR L4 OR L5  
L7 9 S L6 FULL

FILE 'CAPLUS' ENTERED AT 11:00:24 ON 19 MAY 2004

L8 2 S L7

=> d que 18 stat

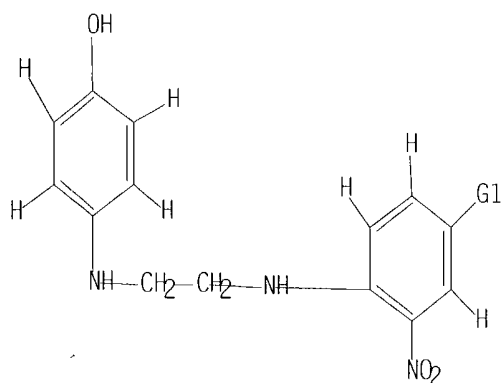
L1 STR



G1 NH2,NO2

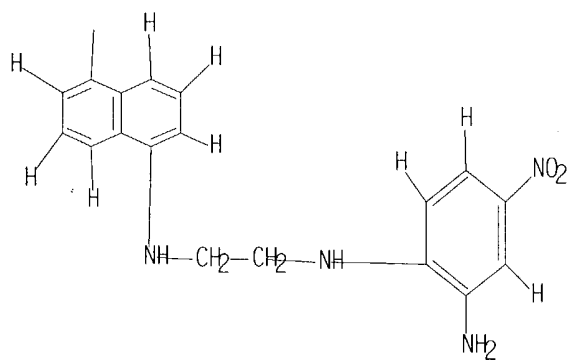
Structure attributes must be viewed using STN Express query preparation.

L2 STR

G1 NH<sub>2</sub>,NO<sub>2</sub>

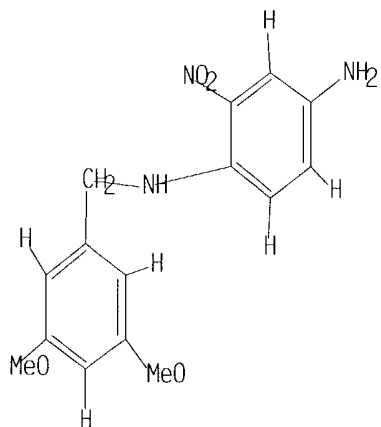
Structure attributes must be viewed using STN Express query preparation.

L3 STR



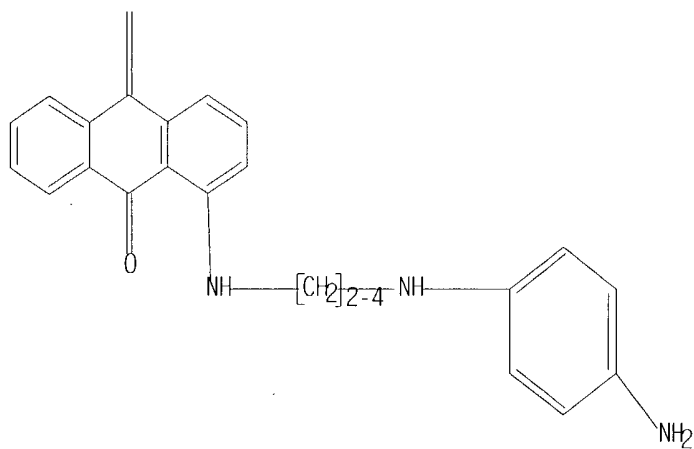
Structure attributes must be viewed using STN Express query preparation.

L4 STR



Structure attributes must be viewed using STN Express query preparation.

L5 STR



Structure attributes must be viewed using STN Express query preparation.

L7 9 SEA FILE=REGISTRY SSS FUL L1 OR L2 OR L3 OR L4 OR L5

L8 2 SEA FILE=CAPLUS ABB=ON PLU=ON L7

=> d 1-2 bib abs hitstr

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:31580 CAPLUS  
 DN 134:102212  
 TI Novel dyes and colorants suitable for dyeing human hair  
 IN Hollenberg, Detlef; Hoffkes, Horst; Foitzik, Joachim-Kurt; Rose, David;  
 Naumann, Frank; Wolfram, Leszek J.  
 PA Henkel Kommanditgesellschaft auf Aktien, Germany  
 SO PCT Int. Appl., 64 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002492	A1	20010111	WO 2000-EP6159	20000701
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19930927	A1	20010111	DE 1999-19930927	19990706
EP 1189993	A1	20020327	EP 2000-949238	20000701
EP 1189993	B1	20040218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003504447	T2	20030204	JP 2001-508272	20000701
AT 259863	E	20040315	AT 2000-949238	20000701
PRAI DE 1999-19930927	A	19990706		
WO 2000-EP6159	W	20000701		

AB The hybrid dyes have the structure XSY, where X represents a chromophoric group that is derived from a direct dye, Y represents a group that is derived from a coupler- or developer-type oxidation dye precursor, an indole derivative as a precursor of melanins, or a direct dye, and S represents a direct bond or a spacer group, provided that S does not represent an alkylene or mono- or polyhydroxyalkylene group if Y is derived from a direct dye. The use of colorants containing these dyes avoids or significantly minimizes a number of problems that occur with the use of complex dye mixts. Thus, 1-[[3-[(4-aminophenyl)amino]propyl]amino]anthraquinone-3HCl (I) was prepared by alkylation of 3-(p-nitroanilino)propylamine with 1-chloroanthraquinone, followed by hydrogenation using 5% Pd on charcoal. A hair cream formulation containing I and 2-(2,4-diaminophenoxy)ethanol was applied to hair and developed with H2O2 solution to provide a bluish gray shade.

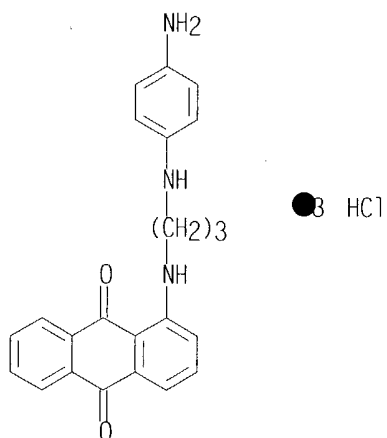
IT 318969-23-2P 318969-24-3P 318969-25-4P  
 318969-26-5P 318969-28-7P 318974-94-6P.

4-[[2-(2,4-Dinitroanilino)ethyl]amino]phenol sulfate

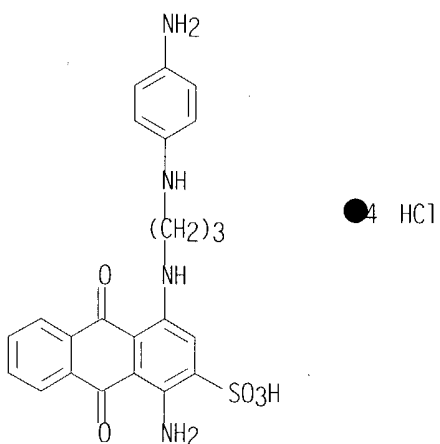
RL: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(hybrid dyes and colorants suitable for dyeing human hair)

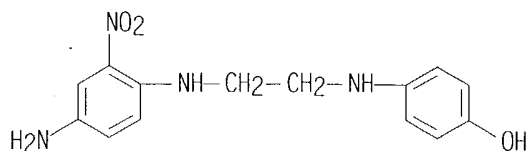
RN 318969-23-2 CAPLUS  
 CN 9,10-Anthracenedione, 1-[[3-[(4-aminophenyl)amino]propyl]amino]-, trihydrochloride (9CI) (CA INDEX NAME)



RN 318969-24-3 CAPLUS  
 CN 2-Anthracenesulfonic acid, 1-amino-4-[[3-[(4-aminophenyl)amino]propyl]amino]-9,10-dihydro-9,10-dioxo-, tetrahydrochloride (9CI) (CA INDEX NAME)



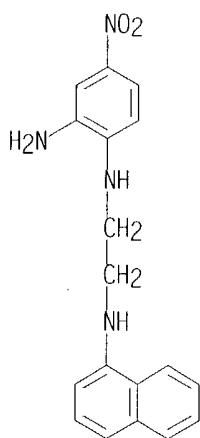
RN 318969-25-4 CAPLUS  
 CN Phenol, 4-[[2-[(4-amino-2-nitrophenyl)amino]ethyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

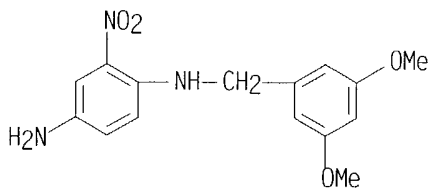
RN 318969-26-5 CAPLUS

CN 1,2-Benzenediamine, N1-[2-(1-naphthalenylamino)ethyl]-4-nitro- (9CI) (CA INDEX NAME)



RN 318969-28-7 CAPLUS

CN 1,4-Benzenediamine, N1-[(3,5-dimethoxyphenyl)methyl]-2-nitro- (9CI) (CA INDEX NAME)



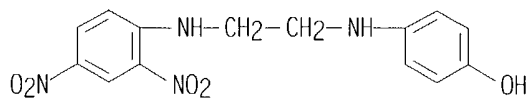
RN 318974-94-6 CAPLUS

CN Phenol, 4-[[2-[(2,4-dinitrophenyl)amino]ethyl]amino]-, sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 318974-93-5

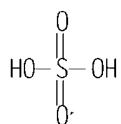
CMF C14 H14 N4 O5



CM 2

CRN 7664-93-9

CMF H2 O4 S



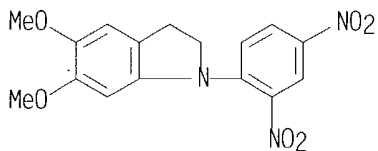
IT 318969-29-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(hybrid dyes and colorants suitable for dyeing human hair)

RN 318969-29-8 CAPLUS

CN 1H-Indole, 1-(2,4-dinitrophenyl)-2,3-dihydro-5,6-dimethoxy- (9CI) (CA  
INDEX NAME)



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1970:80348 CAPLUS

DN 72:80348

TI Anthraquinone dyes and their intermediates

IN Simonnet, Andre; Cabut, Louis

PA Uguine Kuhlmann

SO Fr., 4 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1529724		19680621	FR	19670421

GI For diagram(s), see printed CA Issue.

AB I, where R is alkylene or cycloalkylene give blue shades on nylon. Thus, Na 1-amino-4-(3-aminopropylamino)anthraquinone-2-sulfonate 6 was treated with Na 1-amino-4-bromoanthraquinone-2-sulfonate 8.35 and water 42 in the presence of NaOH 2.1 and CuSO<sub>4</sub> 0.33 part at 80° for 6 hr to give I[R = (CH<sub>2</sub>)<sub>3</sub>, X = H], a blue powder, reddish blue on nylon. Similarly prepared were the following I (R, X, and shade on nylon given): (CH<sub>2</sub>)<sub>6</sub>, H, reddish blue; 1,4-cyclohexylene, H, blue; A, H, reddish blue; (CH<sub>2</sub>)<sub>6</sub>, SO<sub>3</sub>Na, blue.

IT **23386-34-7P**

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of)

RN 23386-34-7 CAPLUS

CN 2-Anthracenesulfonic acid, 4,4'-(trimethylenediimino)bis[1-amino-9,10-dihydro-9,10-dioxo-, disodium salt (8CI) (CA INDEX NAME)

